

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 09-185494

(43)Date of publication of application : 15.07.1997

(51)Int.Cl.

G06F 9/06

G06F 12/00

(21)Application number : 07-344111

(71)Applicant : NEC CORP

(22)Date of filing : 28.12.1995

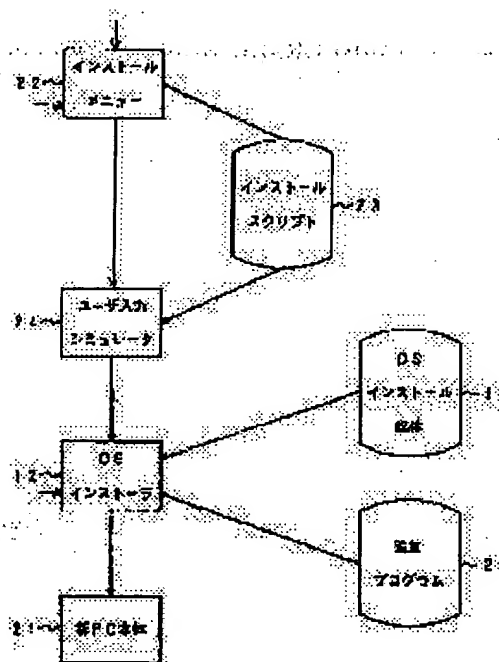
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(54) INSTALL SYSTEM

(57)Abstract:

PROBLEM TO BE SOLVED: To facilitate the install work for a user in the case of integrating an additional program for an operating system(OS) added to a new personal computer(PC) into the main body of the new PC together with an OS install medium.

SOLUTION: This install system has an install menu 22 having a function for the user to select any install conditions and a function for preparing an install script from the install conditions and a user input simulator 24 for performing key or mouse inputting to as OS installer according to the install script in place of the user. In this case, when the user selects any install conditions through the install menu 22, an install script 23 is prepared. According to this install script 23, the user input simulator 24 operates an OS installer 12 in place of the user and installs an additional program 25, which is required for utilizing the OS on the new PC, into a main body 21 of the new PC together with an OS install medium 11.



LEGAL STATUS

[Date of request for examination] 28.12.1995

[Date of sending the examiner's decision of rejection] 14.10.1998

[Kind of final disposal of application other than
the examiner's decision of rejection or
application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's
decision of rejection]

[Date of requesting appeal against examiner's
decision of rejection]

[Date of extinction of right]

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DETAILED DESCRIPTION

[Detailed Description of the Invention]

[0001]

[Field of the Invention] This invention relates to the install method of OS in the remarkable field of the technological innovation of hardware like PC (personal computer) especially about the install method of OS (operating system) of an information processor.

[0002]

[Description of the Prior Art]

An advance of PC related technique is remarkable and the technique used especially by the body of PC is progressing by rapid progress in recent years [[situation which surround PC]]. For this reason, PC which used the new technique is shipped one after another per two - three months. As compared with this, shipment spacing of OS for PCs is usually about one year. Although OS ships by performing a check of operation on the existing PC at the time of shipment, since shipment spacing of PC is shorter than shipment spacing of OS, there is the following problem.

[0003] [trouble :P The newest function of C cannot be supported.] That is, there is a problem that the new function of the hardware which PC (it is hereafter described as new PC) shipped after OS shipment offers cannot be used from OS. In order to solve this problem, the offer manufacturer of new PC has taken the following measures.

[0004] [-- only the program (it is hereafter described as an additional program) which is needed in it when using attachment] OS with new PC is attached to new PC, and a user is provided with the additional program for OS at new PC. By combining this additional program and OS, a user can use new PC.

[0005] [-- new PC -- OS -- install] -- after installing OS in new PC beforehand, it provides. In this case, since an additional program required in order to use new PC is altogether installable by the works side beforehand, a user can use new PC immediately after purchase.

[0006] Some kinds of OS's for a [offer situation of OS] current and PCs are sold. For this reason, if all OS's are pre-installed and shipped, the model number of PC will increase and manufacture and sale will become difficult. For this reason, OS to pre-install is restricted to OS with much need, and other OS's are offered per OS (it is hereafter described as OS package).

[0007] [how to incorporate an additional program] -- to use OS package with new PC as mentioned above, it is necessary to incorporate an additional program The program (it is hereafter described as OS installer) which installs OS is included in OS package. OS installer has a function incorporating the program made from a third party which is not usually included in OS package. The user had incorporated the required additional program conventionally using this function.

[0008] "The improvement method in a system" is proposed by JP,63-178325,A as a remedy of the install method of OS of the [remedy of install method of conventional OS] former. This is a method whose OS already improves OS to equipment [finishing / install].

[0009] This is a method with which an addition or modification installs only a required program to equipment [finishing / install of OS / already].

[0010]

[Problem(s) to be Solved by the Invention] There are the following troubles by the conventional install method mentioned above.

[0011] [trouble 1: The additional program to new PC installs in a beginner the program which needs OS installer automatically or semi-automatically, when a difficulty] user installs OS in new PC and the program of the range included in OS package may be used, but when inclusion of an additional program is required, a user has to specify a required program one by one. This actuation is a difficult activity especially for a beginner's user (trouble 1).

[0012] [trouble 2: Since the need [that automatic install of OS to new PC is based on a user at inclusion of a difficulty] addition program] program needs to be chosen, OS is not automatically installable using OS installer. For this reason, when introducing two or more sets of PCs at once, many man days are needed for install of OS (trouble 2).

[0013] [trouble 3: Since the install method of an application difficulty] JP,63-178325,A official report is simplification of improvement in OS [finishing / install], the install method of JP,63-178325,A cannot apply this method to new PC, when OS is not incorporated like new PC. When this install method has shipment spacing of hardware longer than shipment spacing of software, it is effective, but when new hardware is shipped one after another like PC, this install method cannot be applied (trouble 3).

[0014] The technical problem of [improvement in technical-problem 1: operability] this invention is solving a trouble 1 and enabling it to incorporate an additional program simply, and is to raise a user's operability.

[0015] [technical problem 2: Another technical problem of productivity drive] this invention is raising the productivity of OS install by solving a trouble 2 and reducing a user's handicraft as much as possible.

[0016] Still more nearly another technical problem of this invention is solving a trouble 3, being installing not the improvement in OS but all OS's, making application possible also to new PC, and improving productivity.

[0017]

[Means for Solving the Problem] A main program required for the body of a personal computer which includes the function in which it does not support, by OS according to this invention, in order to operate said OS on the machine for a support, In the method which installs the additional program which is needed when using said OS on said body of a personal computer OS installation medium which stores said main program, and a storing means to store said additional program, The function which includes alternatively the main program contained in said OS installation medium in said body PC of a personal computer, OS installer means with the function which includes said additional program which is not included in said OS installation medium in said body of a personal computer, An install menu means with the menu facility as which a user is made to choose install conditions, and the function which creates an installation script from the selected install conditions, Instead of a user, a key or a mouse input performs install directions of said main program and said additional program for said OS installer means according to said installation script. The install method characterized by having the user input simulator means who makes said body of a personal computer install said main program and said additional program in said OS installer means is obtained.

[0018] Furthermore, according to this invention, said install menu means is started at the time of a startup of said body of a personal computer, and the install method characterized by starting the actuation which installs said main program and said additional program in said body of a personal computer is obtained.

[0019] Moreover, a decision means to judge whether install of said main program to said body of a personal computer and said additional program was successful according to this invention, When this decision means judges it as an install success, from the time of a startup of said next body of a personal computer said OS is started -- as -- setting up -- said decision means -- install, when it is judged that it is unsuccessful The install method characterized by having further a means to set up also at the time of a startup of said next body of a personal computer so that said install menu means may be started is

obtained.

[0020]

[Embodiment of the Invention] Next, this invention is explained with reference to a drawing.

[0021] The functional block diagram of this invention is shown in [functional block of this invention] drawing 1. This invention has the OS installer 12 which installs the OS installation medium 11 and the additional program 25 in the body 21 of new PC according to directions of the install menu 22 which changes into an installation script 23 the install conditions chosen by the user as functional block, the user input simulator 24 which performs a key input or a mouse input according to an installation script 23 instead of being a user, and the user input simulator 24.

[0022] The configuration of OS package is shown in [configuration of OS package] drawing 2. The OS package 10 has the OS installation medium 11 and the OS installer 12.

[0023] (1) The OS installation medium 11 stores the program required in order to operate OS in the top for [of the OS package 10 / PC] a support (PC [finishing / shipment / before shipment of the OS usually]).

[0024] (2) The OS installer 12 has the following two functions.

[0025] The 1st function is a function which includes a required thing in PC from the program included in the OS installation medium 11.

[0026] The 2nd function is a function which includes in PC the program (however, this program is restricted to what is created in the format specified by the OS installer 11.) which is not included in the OS installation medium 11.

[0027] The configuration of new PC is shown in [configuration of new PC] drawing 3. New PC20 has the body 21 of new PC, the install menu 22, an installation script 23, the user input simulator 24, and the additional program 25.

[0028] (1) The body 21 of new PC is PC (for example, a shipment stage is a thing after the OS package 10) of the outside for [of the OS package 10] a support, for example, it compares with PC conventionally, and one or more functions are added or changed. For this reason, the OS package 10 is not installable, or even if it installs, it cannot operate normally.

[0029] (2) The install menu 22 has the following two functions.

[0030] The 1st function is a menu facility for choosing the install conditions of new PC20. As install conditions, there is the following item, for example.

[0031] - Item 1 : information of the user who uses (a user name, a password, affiliation, address, etc.)
 - Item 2 : terminal information when using in a network (a terminal name, a network address, class of communications protocol to be used, etc.)
 - Item 3 : the service condition (16 colors, 256 colors, 16 million colors, etc.) of hardware, for example, the resolution (640x400, 1024x768, 1280x1024 grade) of a screen and the color numbers of a screen
 The 2nd function is a function to change the above-mentioned install conditions into an installation script 23. The install conditions specified by a user are changed into the procedure (installation script 23) which can process the below-mentioned user input simulator 24.

[0032] (3) The user input simulator 24 performs a key input or a mouse input to the OS installer 12 instead of a user.

[0033] (4) The additional program 25 is a program which is needed when using the OS package 10 on the body 21 of new PC. By installing the additional program 25 in the body 21 of new PC with the OS package 10, it becomes possible to use the newest hardware function in which the body 21 of new PC provides.

[0034] The inclusion procedure of the additional program 25 in this invention is shown in [inclusion procedure of additional program 25] drawing 4.

[0035] At step S1, if the body 21 of new PC is turned on immediately after purchase, this inclusion procedure will start.

[0036] The install menu 22 is started at step S2.

[0037] At step S3, a user inputs install conditions according to the install menu 22.

[0038] In step S4, the install menu 22 changes into an installation script 23 the install conditions

specified by the user.

[0039] At step S5, the install menu 22 starts the user input simulator 24.

[0040] At step S6, a user starts the OS installer 12 contained in the OS package 10.

[0041] At step S7, the user input simulator 24 performs a key input or a mouse input to the OS installer 12 according to an installation script 23.

[0042] At step S8, the OS installer 12 installs the OS installation medium 11 and the additional program 25 in the body 21 of new PC according to directions of the user input simulator 24.

[0043] In step S9, it checks whether install of OS has been successful, and if it has succeeded and step S10 will have progressed and gone wrong, it will progress to step S11.

[0044] At step S10, from the time of starting of the next body 21 of new PC, it sets up so that it may start from installed OS, and processing is ended (step S12).

[0045] At step S11, it sets up so that the install menu 22 may start also at the time of starting of the next body 21 of new PC, and processing is ended (step S12).

[0046]

[Effect of the Invention] As explained above, according to this invention, there is effectiveness which is described below.

[0047] Since a user input simulator (24) performs install of OS and an additional program (25) instead of a user only by [OS to new PC and inclusion of an additional program are easy, i.e., a user,] specifying install conditions according to an install menu (22), inclusion of OS can be performed easily.

[0048] When incorporating OS using [generating of an operation mistake is made to the minimum since actuation of a user can be reduced as much as possible (12), i.e., OS installer,] Although a user has to direct information required for OS installer (12) with a keyboard or a mouse if needed in the middle of an install activity In this invention, since a user input simulator (24) executes a user's alter operation by proxy, a user's count of actuation can be pressed down to the minimum. For this reason, the count of a user's operation mistake can also be reduced.

[0049] The input of the install conditions by the user can be brought to the initial stage of an install activity by introducing [install of OS to new PC is automatable (22), i.e., an install menu,]. Since a user input simulator (24) inputs required information into OS installer (12) instead of a user based on install conditions, the activity after this can automate install of OS.

[0050] The install man day of OS in case this introduces two or more PCs of a base can be shortened sharply.

[0051] Since [it is applicable also to new PC with which OS is not pre-installed, i.e., JP,63-178325,A,] is simplification of improvement in OS [finishing / install], when OS is not incorporated like new PC, it cannot apply this method. However, this invention is applicable also to the equipment with which OS is not pre-installed by incorporating OS ISUN toll medium (11) and an additional program (25) together.

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CLAIMS

[Claim(s)]

[Claim 1] A main program required for the body of a personal computer which includes the function in which it does not support, by OS in order to operate said OS on the machine for a support, In the method which installs the additional program which is needed when using said OS on said body of a personal computer OS installation medium which stores said main program, and a storing means to store said additional program, The function which includes alternatively the main program contained in said OS installation medium in said body PC of a personal computer, OS installer means with the function which includes said additional program which is not included in said OS installation medium in said body of a personal computer, An install menu means with the menu facility as which a user is made to choose install conditions, and the function which creates an installation script from the selected install conditions, Instead of a user, a key or a mouse input performs install directions of said main program and said additional program for said OS installer means according to said installation script. The install method characterized by having the user input simulator means who makes said body of a personal computer install said main program and said additional program in said OS installer means.

[Claim 2] The install method according to claim 1 characterized by starting the actuation which said install menu means is started at the time of a startup of said body of a personal computer, and installs said main program and said additional program in said body of a personal computer.

[Claim 3] A decision means to judge whether install of said main program to said body of a personal computer and said additional program was successful, When this decision means judges it as an install success, from the time of a startup of said next body of a personal computer said OS is started -- as -- setting up -- said decision means -- install, when it is judged that it is unsuccessful The install method according to claim 2 characterized by having further a means to set up also at the time of a startup of said next body of a personal computer so that said install menu means may be started.

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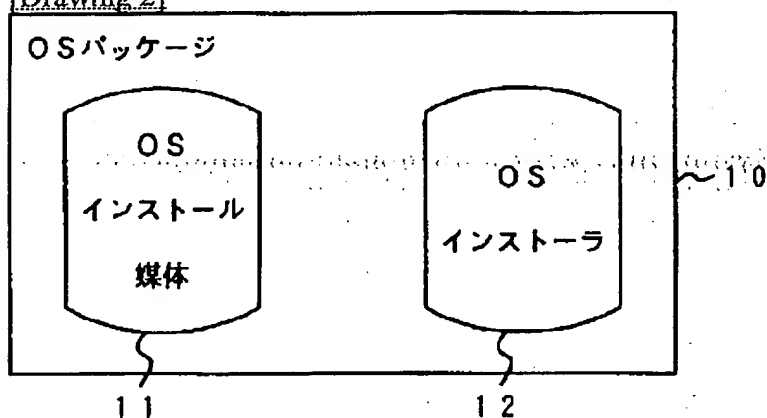
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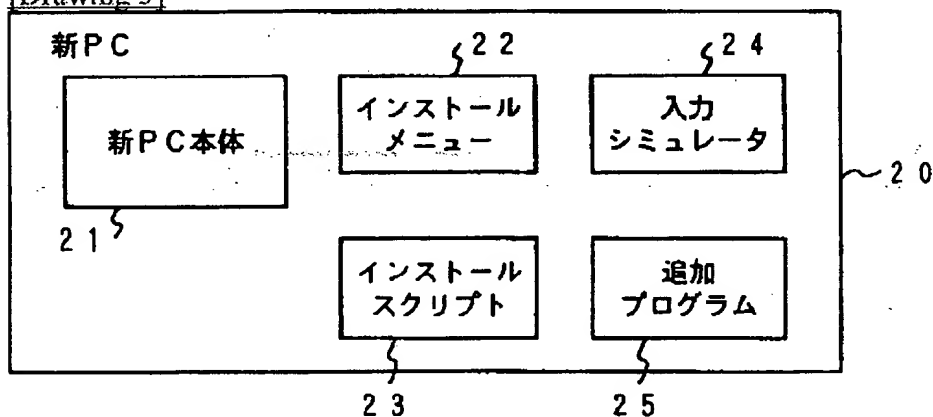
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DRAWINGS

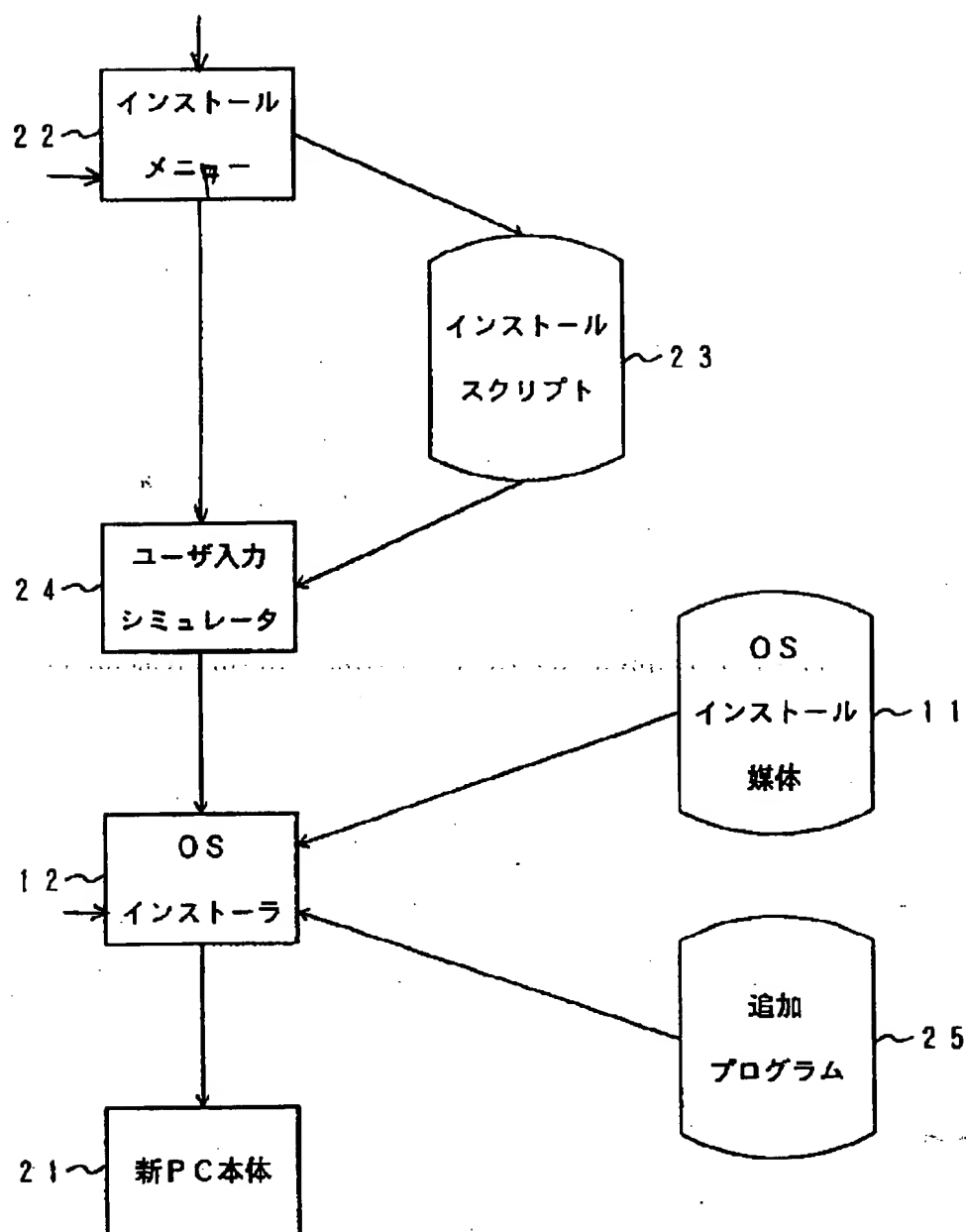
[Drawing 2]



[Drawing 3]



[Drawing 1]



[Drawing 4]

